

Title (en)

METHOD FOR TREATING PLANTS WITH RESPECT TO ESTIMATED ROOT ZONES

Title (de)

VERFAHREN ZUR BEHANDLUNG VON PFLANZEN IN BEZUG AUF GESCHÄTZTE WURZELBEREICHE

Title (fr)

PROCÉDÉ DE TRAITEMENT DE PLANTES PAR RAPPORT AUX ZONES DE RACINE ESTIMÉES

Publication

**EP 3476216 A1 20190501 (EN)**

Application

**EP 18203210 A 20181029**

Priority

US 201715800001 A 20171031

Abstract (en)

A method for treating plants with respect to estimated root zones comprises estimating a growth state or maturity state of a plant based on a planting date, a current date and the crop type of the plant. A root zone estimator or data processor estimating a size, diameter or radius of a root zone of the plant based on the determined growth state or maturity state. The data processor or nozzle control module adjusts a lateral offset of a spray pattern of a nozzle assembly of one or more nozzles based on the size, diameter or radius to target alignment or maximization of overlap area of a crop input directed to a strip or zone with respect to the corresponding root zone.

IPC 8 full level

**A01M 7/00** (2006.01)

CPC (source: EP US)

**A01C 21/007** (2013.01 - US); **A01G 22/00** (2018.02 - US); **A01G 25/16** (2013.01 - US); **A01M 7/0089** (2013.01 - EP US); **G01N 33/24** (2013.01 - EP US); **G01N 33/245** (2024.05 - EP); **G01N 33/245** (2024.05 - US)

Citation (search report)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3476216 A1 20190501**; **EP 3476216 B1 20210811**; ES 2887025 T3 20211221; US 10830751 B2 20201110; US 2019128864 A1 20190502

DOCDB simple family (application)

**EP 18203210 A 20181029**; ES 18203210 T 20181029; US 201715800001 A 20171031